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JUL 15 1964

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies
named above in cooperation with the Bureau of Reclamation,
U.S. Forest Service, National Park Service, and other Federal,
State and private organizations.

AS OF
MAY 1, 1964

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

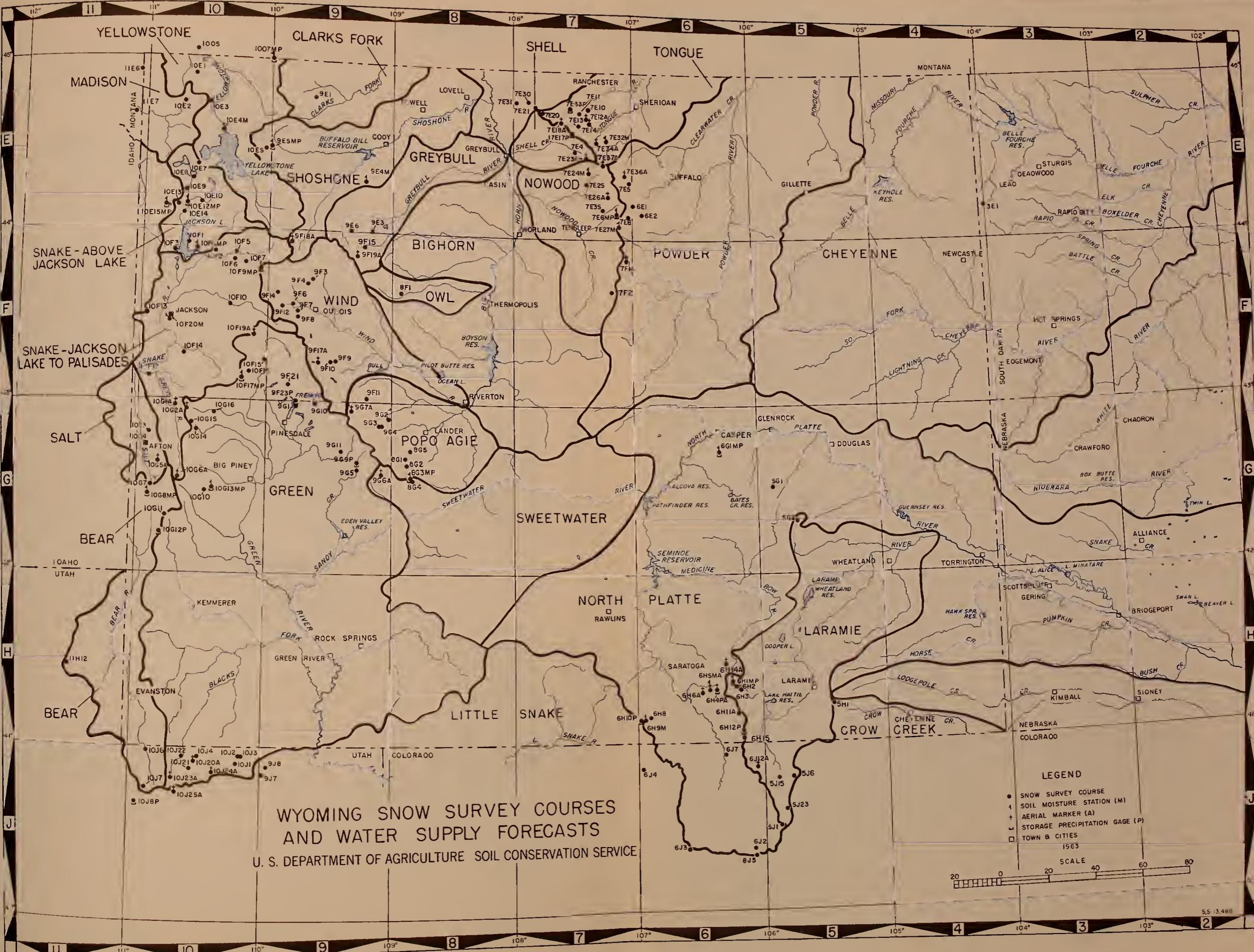
Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Water Supply Forecasting Unit, Soil Conservation Service, P.O. Box 2807, Portland, Oregon 97208.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVAOA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.



INDEX TO WYOMING SNOW COURSES

DRAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	LOCATION						DRAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	LOCATION						DRAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	LOCATION									
		SEC.	ELEV.	LAT.	TWP.	RANGE LONG.	RECORD BEGAN	MEAS. DATES a	MEAS. BY b	SEC.	ELEV.	LAT.	TWP.	RANGE LONG.	RECORD BEGAN	MEAS. DATES a	MEAS. BY b	SEC.	ELEV.	LAT.	TWP.	RANGE LONG.	RECORD BEGAN	MEAS. DATES a	MEAS. BY b		
MISSOURI RIVER DRAINAGE																											
MAISON RIVER										POWDER RIVER																	
Norris Basin	10E2	7500	44 44'		110	42'	1936	2,3,4,5	2	Bear Trap	7F1A	8000	10	45N	85W	1960	2,3,4,5	1	Arizona	10F1	6850	35	46N	115W	1919	2,3,4	5
West Yellowstone	11E6	7150	1	115	56		1934	1,2,3,4,5	1	Canyon Creek	7F2	7400	16	43N	86W	1960	2,3,4,5	1	Astor Creek	10E8	7700	44 17'	46N	110 37'	1919	2,3,4	5
West Yellowstone	11E7	6700	34	135	56		1934	1,2,3,4,5	1	Clouds Peak	7E36A	10000	15	51N	85W	1960	2,3,4	1	Base Camp	10F2	6900	20	46N	113W	1917	2,3,4	5
YELLOWSTONE										County Line	7E6MP	8200	1	48N	86W				Coulter Creek	10E10	7600	44 09'	46N	110 33'	1919	2,3,4	5
Canyon	10E3	7750	44 44'		110	30'	1938	1,2,3,4,5	1	Muddy Creek G.S.	6E2	7800	2	48N	84W	1956	2,3,4,5	1	Glade Creek	10E13	7200	44 08'	46N	110 44'	1919	2,3,4	2
Cooke City	1007MP	7400	33	95	44E		1937	1,2,3,4,5	2	Munkres Pass	7E8	9700	11	48N	85W	1950	2,3,4,5	1	Grassy Lake	10E15MP	7265	6	48N	116W	1940	2,3,4,5	5
Crevice Mountain	1005	8400	22	95	9E		1935	3,4	4	Soldier Park	7E27#	8100	31	48N	85W	1956	2,3,4,5	1,6	Huckleberry Divide	10E14	7300	32	48N	115W	1919	2,3,4	5
East Entrance	9E5MP	7000	44 29'		110	00'	1948	1,2,3,4,5	2	Sour Dough	6E1	8500	17	49N	84W	1936	2,3,4,5	1,6	Lewis Lake Divide	10E9	7900	44 13'	46N	110 40'	1919	2,3,4,5	5
Lake Camp #1, #2	10E4M	7850	44 34'		110	24'	1937	1,2,3,4,5	1									Moran	10F1MP	6800	8,17	45N	114W	1919	2,3,4	5	
Lupine Creek	10E1	7300	44 54'		110	37'	1938	1,2,3,4,5	2									Moran Bay	10F3	6800	14	45N	116W	1919	2,3,4	5	
Thumb Divide	10E7	7900	44 22'		110	35'	1946	2,3,4	5									Snake River Station	10E12MP	6780	44 08'	46N	110 40'	1919	2,3,4	5	
Sylvan Pass	10E5	7100	44 28'		110	02'	1936	1,2,3,4,5	2									Thumb Divide	10E7	7900	44 22'	46N	110 35'	1951	2,3,4	5	
CLARK'S FORK										SWEETWATER								COLUMBIA RIVER DRAINAGE									
Lodgepole	9E1	8200	32	56N	106W	1940	2,3,4,5	1,4	Granner Meadows	8G4	9000	19	30N	100W	1937	2,3,4,5	1	JACKSON LAKE TO PALISADES									
WIND RIVER									Larsen Creek	906A	9000	12	30N	103W	1949	2,3,4,5	1	Afton R.S.	10G4	6200	30	32N	118W	1936	1,2,3,4,5	4	
Big Warm	9F12	8800	36	42N	109W	1955	2,3,4,5	1	South Pass	8G3MP	9000	13	30N	101W	1939	2,3,4,5	1	Blackrock	10F7	8600	4	44N	111W	1936	2,3,4	5	
Burroughs Creek	9F1	8800	15	43N	107W	1948	2,3,4,5	1									Blind Bull Summit	10G2A	8750	6	34N	115W	1918	2,3,4	1		
Oinwoodie	9F10	10000	8	3N	6W		1948	2,3,4,5	1,3								Bryan Flat	10F14	6250	9	38N	115W	1936	1,2,3,4,5	1		
Oinwoodie Glaciers	9F17A	10500	43 16'		109	38'	1959	2,3,4	1								CCC Camp	10G7	7500	9	29N	118W	1936	1,2,3,4,5	1		
Dry Creek	9F9	9500	10	3N	6W		1948	2,3,4,5	1,3								Cottonwood Lake	10G5A	7500	25	31N	118W	1936	1,2,3,4,5	1		
OuNoir	9F6	8750	27	42N	108W	1940	2,3,4,5	1									Deadman Ranch	10G1A	653L	32	35N	116W	1936	2,3,4	1		
Geyser Creek	9F7	8500	12	41N	108W	1948	2,3,4,5	1									East Rim Divide	10F17MP	7950	32	37N	111W	1936	1,2,3,4,5	1		
Little Wrm	9F8	9500	24	41N	108W	1948	2,3,4,5	1									Four Mile Meadows	10F6	7770	35	45N	112W	1936	2,3,4,5	5		
Sheridan R.S. #2	9F14	7500	3	42N	109W	1955	2,3,4,5	1									Grey's Boundary	10F18	5800	33	37N	118W	1936	1,2,3,4,5	1		
T-Cross Ranch	9F3	8000	1	43N	107W		1940	2,3,4,5	1								Gros Ventre	10F19	8750	36	40N	111W	1918	2,3,4,5	1		
Tagwotee Pass	10F9MP	9600	29	44N	110W	1936	2,3,4,5	5									Grover Park Divide	10G3	7500	27	33N	118W	1936	1,2,3,4,5	1		
POPO AGIE RIVER									Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5	1	Head of Bear River	10J5	8600	15	2N	10E	1935	4	1	
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1									Kelly R.S.	10G12P	8200	13	26N	118W	1951	2,3,4,5	1		
Bruce's Camp	8G5	6500	21	32N	101W	1955	2,3,4	1									Lake Fork Basin	10J25A	11100	13	15	11E	1962	2,3,4,5	1		
Hobbs Park	9G3	10000	22	25	3W		1948	2,3,4,5	1,3								Monte Cristo R.S. u	11H12	8960	3	8N	4E	1930	3,4,5	1		
Mosquito Park R.S.	9G4	9500	23	25	3W		1940	2,3,4,5	1								Poison Meadows	10G6	8500	29	30N	116W	1918	2,3,4,5	1		
Sawmill Glade	8G1	8500	3	31N	101W	1939	2,3,4,5	1									Salt River Summit	10G8MP	7900	32	29N	118W	1918	2,3,4,5	1		
South Pass	8G3MP	9000	13	30N	101W	1939	2,3,4,5	1									Snow King Mtn. #3	10F20W	7600	4	40N	116W	1959	Semi. No. 1			
St. Lawrence R.S.	9F11	9000	26	1N	4W		1940	2,3,4,5	1,3																		
Trout Creek	9G2	8400	5	25	2W		1948	2,3,4,5	1,3																		
Twenty Lakes	9G7A	10500	22	1S	5W		1959	2,3,4	1																		
OWL CREEK																											
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	1																			
GREYBULL RIVER																											
Frontier Needle	9E6	10000	28	47N	104W	1961	2,3,4	1																			
Kirwin	9F19A	11000	13	45N	104W	1960	2,3,4	1																			
Wood River #2	9F15	8000	28	46N	103W	1956	2,3,4,5	1																			
Timber Creek #2	9E3	8800	25	47N	103W	1955	2,3,4,5	1																			
SHOSHONE RIVER																											

FEDERAL STATE COOPERATIVE
SNOW SURVEYS AND WATER FORECASTS
FOR
WYOMING

Issued
May 1, 1964

Report Prepared
by
George W. Peak
Snow Survey Supervisor
and
Tommy A. George
Assistant Snow Survey Supervisor
State of Wyoming

Soil Conservation Service
345 East 2nd Street
P. O. Box 340
Casper, Wyoming 82602

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service
Casper, Wyoming

Floyd Bishop
State Engineer of Wyoming
State Capitol Building
Cheyenne, Wyoming



WATER SUPPLY OUTLOOK

FOR

WYOMING

May 1, 1964

Slightly above normal precipitation during April has improved the seasonal water supplies in most areas of the State. However, exceptionally heavy wind over the NORTH PLATTE WATERSHED has reduced the expected flow at Saratoga to 88 percent of normal, reducing the combined storage and snow melt runoff to about 75 percent of average.

THE SNAKE RIVER BASIN remains about the same as last month. THE SALT and the GREY'S RIVER DRAINAGES have improved substantially due, primarily, to less than normal evaporation during April.

THE GREEN RIVER BASIN outlook has also improved during the past month with seasonal flows of 92 to 94 percent of average expected.

THE WIND RIVER and its tributaries have also materially improved. The Wind at Dubois is expected to yield 80 percent of normal.

Flows into BULL LAKE CREEK will be about 88 percent of average. THE NORTH POPO AGIE will yield 82 percent of normal water supplies, and the LITTLE POPO AGIE near Lander is up to 86 percent.

THE SHOSHONE RIVER BASIN is currently fixed at 95 percent for the ensuing season, and the SHELL CREEK and TENSLEEP CREEK tributaries will release 96 percent of average.

Excepting for a few post season snow surveys in the Snowy Range, this will be the final report on Wyoming water supplies.



WYOMING STREAM-FLOW FORECASTS - May 1, 1964

BASIN AND TRIBUTARY	May 1 - September 30 Seasonal Stream-Flow in Thousands of Acre Feet				
	Forecast Runoff	% 15-Year Average	Measured Runoff		
			1962	15-Yr. Av. 1943-57	
MADISON RIVER					
West Yellowstone (at)	178	95%	196	187	
YELLOWSTONE RIVER					
Corwin (at)	1800	96%	2116	1888	
LITTLE POPO AGIE					
Lander (near)	33	86%	41	38.5	
NORTH POPO AGIE					
Milford (near)	59	82%	86	72	
BULL LAKE CREEK					
Lenore (near)	143	88%	203	161	
WIND RIVER					
Dubois (near)	74	80%	98	93	
SHELL CREEK					
Shell (near)	65	96%	75	68	
TENSLEEP CREEK					
Tensleep (near)	72	95%	88	76	
MEDICINE LODGE CREEK					
Hyattville (near)	20	94%	21	21.2	
SHOSHONE RIVER					
Buffalo Bill Dam (below) (1)	768	95%	550	808	
CLARK'S FORK					
Chance, Mont. (at)	561	95%	573	590	
LARAMIE RIVER					
Jelm (at) (2)	98	91%	124	108	
ENCAMPMENT RIVER					
Encampment (near)	105	71%	114	147	
MEDICINE BOW RIVER					
Hanna (near)	79	100%	95	79	
NORTH PLATTE RIVER					
Northgate (at)	176	82%	287	215	
	505	88%	730	577	
DEER CREEK					
Glenrock (at)	48.5	330%	17.9	14.7**	



WYOMING STREAM-FLOW FORECASTS - May 1, 1964

BASIN AND TRIBUTARY	May 1 - September 30 Seasonal Stream-Flow in Thousands of Acre Feet				
	Forecast Runoff	% 15-Year Average	Measured Runoff		
			1962	15 Yr. Avg	1943-57
NORTH PINEY CREEK					
Mason (at)	37.5	96%	37	39	
NEW FORK LAKE					
Boulder (near)	260	106%	233	246	
GREEN RIVER					
Warren Bridge (at)	310	94%	353	330	
Fontenelle (near)	825	93%	952	887	
Green River (at)	990	92%	993	1080	
BIG SANDY CREEK					
Big Sandy (near)	52	93%	55	56	
LITTLE SANDY CREEK					
Elkhorn (near)	11.8	94%	14	14	
LITTLE SNAKE					
Lilly, Colo. (at)	270	93%	267	289	
LITTLE SNAKE					
Dixon	274	104%	266.7	264	
SNAKE RIVER					
Moran (at) (3)	722	82%	569	881	
Ab. Reservoir nr. Alpine	2180	83%	2303	2620	
GREY'S RIVER					
Palisades ab. Reservoir	387	117%	359	332	
SALT RIVER					
Etna ab. Reservoir	360	121%	309	297	
BEAR RIVER					
Utah-Wyo. State Line (near)	103	89%	129	116	
SMITH'S FORK					
Border (near)	133	123%	121	108	
BLACK'S FORK					
Green River (near)	140	88%	135	162	

All Stream data taken from observed flow records with the following exceptions:

- (1) Observed flow corrected for Buffalo Bill storage and Heart Mtn. diversion
- (2) Observed flow corrected for Colorado diversion above station.
- (3) Observed flow corrected for Jackson Lake Storage.

* Less than 15 years of record.

** May-July runoff for Deer Creek.

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1964

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS				PAST RECORD		
			Date of Survey	1964	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1943-5	1943-5
				1963	1962	Average		1943-5	
<u>MADISON RIVER - YELLOWSTONE PARK</u>									
Norris Basin	10E2	7500	4/28	37	13.0	10.9	4.1	6.3e	
21 Mile	11E6	7150	4/29	47	18.6	11.2	11.4	14.5	
West Yellowstone	11E7	6700	4/29	23	8.3	4.6	5.0	5.6	
<u>UPPER YELLOWSTONE - YELLOWSTONE PARK</u>									
Canyon	10E3	7750	4/29	46	16.0	14.5	15.5	12.6e	
Northeast Entrance	10D7MP	7400	4/29	26	8.2	7.2	3.8	6.0e	
East Entrance	9E5MP	7000	4/30	14	4.7	7.2	0.0	4.9e	
Lake Camp #1	10E4M	7850	4/30	32	8.5	6.9	9.9	8.7e	
Lake Camp #2	10E4M	7850	4/30	30	7.0	5.5	7.7	6.8e	
Lupine Creek	10E1	7300	4/29	29	8.2	8.7	6.2	8.6e	
Norris Basin	10E2	7500	4/28	37	13.0	10.9	4.1	6.3e	
Sylvan Pass	10E5	7100	4/30	31	11.1	12.6	2.0	10.7e	
<u>LOWER YELLOWSTONE - CLARK'S FORK</u>									
Lodgepole	9E1	8200	4/30	40	11.3	11.0	7.2	11.0e	
<u>LOWER YELLOWSTONE - WIND RIVER</u>									
Big Warm	9F12	8800	4/21	34	8.8	8.4	6.2	8.5e	
Burroughs Creek	9F4	8800	4/23	37	11.0	15.1	12.7	16.5e	
Dinwoodie	9F10	10000	4/24	44	11.2	12.8	12.8	12.1e	
Dinwoodie Glaciers	9F17A	10500	N.R.			N.R.	N.R.		
Dry Creek	9F9	9500	4/24	31	6.6	8.2	5.9	6.2e	
DuNoir	9F6	8750	4/21	29	9.0	8.7	6.5	7.9	
Geyser Creek	9F7	8500	4/22	23	6.0	7.1	3.9	6.6e	
Little Warm	9F8	9500	4/22	57	16.1	16.5	20.8	17.1e	
Sheridan R.S. #2	9F14	7500	4/21	18	4.3	6.6	0.8	4.8e	
T-Cross Ranch	9F3	8000	4/23	9	2.8	2.9	0.2	4.5e	
Togwotee Pass	10F9MP	9600	4/30	81	33.4	31.7	33.0	29.5e	
Twenty Lakes	9G7A	10500	N.R.			N.R.	N.R.		
<u>LOWER YELLOWSTONE - OWL CREEK</u>									
Owl Creek	8F1	8700	5/3	31	9.6	10.1	8.0	8.7e	
<u>LOWER YELLOWSTONE - GREYBULL RIVER</u>									
Frontier Needle	9E6	10000	N.R.			N.R.	12.0		
Kirwin	9F19A	11000	N.R.			N.R.	13.7		
Timber Creek #2	9E3	8800	4/30	19	6.5	6.6	1.7	4.1a	
Wood River #2	9F15	8000	5/1	22	7.5	7.3	4.2	5.6a	

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1964

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS				PAST RECORD		
			1964		Water Content (In.)	Water Content (In.)	1963	1962	Avera
			Date of Survey	Snow Depth (In.)			1943-	1943-	1943-
<u>LOWER YELLOWSTONE - POPO AGIE RIVER</u>									
Blue Ridge	8G2	9500	4/30	46	14.5	12.5	12.0	13.6	
Hobb's Park	9G3	10000	4/26	69	23.7	19.1	20.1	20.9e	
Mosquito Park R.S.	9G4	9500	4/26	46	11.9	10.8	8.2	8.4e	
Sawmill Glade	8G1	8500	4/30	33	11.5	8.5	8.8	7.1	
South Pass	8G3MP	9000	4/30	44	15.1	15.4	14.5	16.3	
St. Lawrence R.S.	9F11	9000	4/25	36	8.8	8.8	7.8	7.7e	
Trout Creek	9G2	8400	4/26	31	7.6	4.1	0.0	3.2e	
<u>LOWER YELLOWSTONE - SHOSHONE RIVER</u>									
East Entrance	9E5MP	7000	4/30	14	4.7	7.2	0.0	4.9e	
Carter Mountain	9E4M	7800	4/29	33	9.4	9.2	4.7	7.0a	
Sylvan Pass	10E5	7100	4/30	31	11.1	12.6	2.0	10.7e	
Togwotee Pass	10F9MP	9600	4/30	81	33.4	31.7	33.0	29.5e	
<u>LOWER YELLOWSTONE - NOWOOD CREEK</u>									
Bear Trap	7F1A	8000	4/27	45	13.0E	6.2	9.2		
Canyon Creek	7F2	7400	4/27	73	23.4	17.9	10.2		
Cold Springs Camp	7E25	8700	5/2	28	9.1	10.2	6.4	8.6a	
Medicine Lodge Lakes	7E24M	9500	5/2	48	15.8	15.9	12.8	12.7e	
Munkres Pass	7E8	9700	5/2	43	15.2	12.4	10.7	9.8	
Onion Gulch	7E27M	8100	4/24	43	12.7	9.3	12.3	9.2	
Tensleep R.S.	7E7	8300	N.R.			N.R.	N.R.	4.4	
Tyrell R.S.	7E35	8300	4/25	35	10.9	11.6	8.8	7.8e	
West Tensleep Lake	7E26A	9075	4/26	49	13.8	12.8	14.6	11.8e	
<u>LOWER YELLOWSTONE - SHELL CREEK</u>									
Bald Mountain	7E21M	9600	4/26	106	32.4	27.9	24.5	24.6e	
Beaver Tongue	7E20	9200	4/26	94	25.1	22.9	21.3	21.5a	
Bone Spring Divide	7E18A	9200	4/27	75	21.8	22.8	20.9	20.4a	
Granite Pass	7E17P	8950	4/27	71	21.0	19.5	19.7	19.6a	
Ranger Creek	7E4	8800	4/28	36	11.5	12.9	8.8	7.5e	
Shell Creek	7E23A	9600	4/28	60	19.2	21.4	18.6	16.2a	
<u>LOWER YELLOWSTONE - PORCUPINE CREEK</u>									
Five Springs Falls	7E31	7500	5/1	33	11.0	11.0	2.0	6.7a	
Medicine Wheel	7E30	9000	4/26	81	21.5	21.4	13.3	17.5a	

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1964

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					PAST RECORD		
			1964		Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1943-57		
			Date of Survey	1963				1962	Average	

LOWER YELLOWSTONE - TONGUE RIVER

Beaver Tongue	7E20	9200	4/26	94	25.1	22.9	21.3	21.5a
Big Goose #2	7E32M	7700	4/29	37	12.2	12.6	6.5	9.1e
Bone Spring Divide	7E18A	9200	4/27	75	21.8	22.8	20.9	20.4e
Burgess R.S. #2	7E33P	7900	4/26	76	15.4	9.4	5.1	8.3e
Dome Lake #2	7E34A	8800	4/30	44	14.7	17.2	11.0	12.8e
Geneva Pass	7E37	10600	N.R.			26.0A	N.R.	
Gloom Creek	7E14A	9300	4/26	72	20.3	14.9	15.1	16.7
Granite Pass	7E17P	8950	4/27	71	21.0	19.5	19.7	19.6e
North Tongue	7E15	8800	4/26	81	17.2	13.5	10.0	
Sibley Lake	7E11	8000	4/28	60	19.2	18.3	8.0	11.4a
Steamboat Point	7E10	7500	4/28	50	15.8	17.3	5.3	10.5a
Sucker Creek	7E12A	9000	4/26	74	22.1	16.0	13.0	13.8a
Wood Rock G.S.	7E13	8500	4/27	58	16.9	12.3	9.6	12.1a

LOWER YELLOWSTONE - POWDER RIVER

Bear Trap	7F1A	8000	4/27	45	13.0E	6.2	9.2	
Canyon Creek	7F2	7400	4/27	73	23.4	17.9	10.2	
Clouds Peak	7E36A	10000	N.R.			21.5A	N.R.	
Muddy Creek G.S.	6E2	7500	5/2	10	2.5	3.7	0.0	3.4a
Munkres Pass	7E8	9700	5/2	43	15.2	12.4	10.7	9.8e
Onion Gulch	7E27M	8100	4/24	43	12.7	9.3	12.3	9.2a
Soldier Park	7E5	8700	5/1	19	5.1	10.9	5.4	6.1e
Sour Dough	6E1	8500	5/1	24	6.4	8.6	6.2	6.6e

NORTH PLATTE - SWEETWATER

Grannier Meadows	8G4	9000	4/30	45	15.3	16.0	15.6	15.5
Larsen Creek	9G6A	9000	4/29	31	9.7	12.8	10.5	7.8e
South Pass	8G3MP	9000	4/30	44	15.1	15.4	14.5	16.3

NORTH PLATTE - CROW CREEK

Pole Mountain #2	5H1	8700	4/28	19	6.3	T	0.3	2.7e
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NORTH LARAMIE MOUNTAINS

Boxelder #2	5G1	7500	5/4	26	10.5	4.0	4.2	4.0a
Casper Mountain	6G1MP	7940	5/1	75	27.6	14.9	9.1	13.2a
LaBonte	5G2	8450	4/29	23	7.8	0.9	0.0	0.0a

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1964

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					PAST RECORD	
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)		1963	1943-57
						1964	1962		
<u>NORTH PLATTE - LARAMIE RIVER</u>									

Albany	6H11A	9400	4/25	38	12.5	10.4	9.6	11.5e
Brooklyn Lake #2	6H1MP	10200	4/24	61	22.7	19.2	23.3	23.5e
Cameron Pass	5J1	10285	4/28	92	32.2	19.8	36.5	25.6
Chambers Lake	5J2	9000	5/3	25	7.0	1.0	2.3	4.9
Deadman Hill	5J6	10300	4/27	50	17.1	14.7	17.7	17.7
Evans	6H15	9000	4/29	32	11.2	9.7	9.3	
Foxpark	6H12P	9200	5/1	24	8.7	2.9	3.9	5.0
Hairpin Turn #3	6H2	9500	4/24	42	15.2	13.9	12.6	12.1e
LaBonte	5G2	8450	4/29	23	7.8	0.9	0.0	0.6e
Libby Lodge	6H3	8700	4/24	30	10.7	18.4	6.3	7.8
Lost Lake	5J23	9300	5/3	32	7.5	5.6	9.1	8.4e
McIntyre	5J15	9100	4/24	32	13.2	5.7	8.0	9.0e
Pole Mountain #2	5H1	8700	4/28	19	6.3	T	0.3	2.7e
Roach	6J12	9800	4/25	58	17.8	11.5	20.0	20.9

NORTH PLATTE - ABOVE SEMINOE RESERVOIR

Albany	6H11A	9400	4/25	38	12.5	10.4	9.6	11.5e
Bottle Creek	6H8	8200	4/30	36	14.4	10.8	9.7	10.7
Boxelder #2	5G1	7500	5/4	26	10.5	4.0	4.2	4.0a
Cameron Pass	5J1	10285	4/28	92	32.2	19.8	36.5	25.6
Casper Mountain	6G1MP	7940	5/1	75	27.6	14.9	9.1	13.2a
Columbine	6J3	9300	4/27	67	23.5	21.9	23.2	21.3
Evans	6H15	9000	4/29	32	11.2	9.7	9.3	
Foxpark	6H12P	9200	4/1	24	8.7	2.9	3.9	5.0
LaBonte	5G2	8450	4/29	23	7.8	0.9	0.0	0.6a
North Barrett Creek	6H5AM	9400	4/30	69	25.6	18.2	N.R.	19.4
North French Creek	6H4AP	10200	4/30	104	39.4	29.7	36.0	32.L
Northgate	6J7	8500	4/29	17	5.4	0.4	4.0	
Old Battle	6H10P	9800	5/1	87	32.4	32.6	32.1	34.
Park View	6J2	9200	4/27	22	5.5	1.0	9.1	6.5
Roach	6J12	9800	4/25	58	17.8	11.5	20.0	20.9
Ryan Park	6H6A	8400	4/30	35	14.2	3.4	6.2	7.4
Rock Creek	6H11	9800	4/29	94	33.7	28.7		
Rabbit Ears	6J9	9550	4/28	75	27.6	21.3	28.4	26.1e
Webber Springs	6H9M	9000	4/30	43	17.3	17.6	15.2	16.1
Willow Creek Pass	6J5	9500	4/27	30	8.3	5.5	14.3	11.5

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1964

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS				PAST RECORD		
			1964		Water Content (In.)	Water Content (In.)	Water Content (In.)		
			Date of Survey	Snow Depth (In.)			1963	1962	Average

GREEN RIVER - ABOVE GREEN RIVER

Big Sandy Opening	969P	9220	4/28	42	11.9	14.3	12.4		
Dutch Joe R.S.	965	8700	4/28	23	9.1	9.4	5.7	4.5e	
East Rim Divide	10F17MP	7950	4/28	30	7.9	9.1	11.6	10.5e	
Elk Heart Park	9F23P	9400	4/27	57	15.6	14.5	16.9		
Gros Ventre	10F19A	8750	5/1	33	10.1	12.1	11.9	10.8e	
Kendall R.S. #1	10F15	7900	5/1	20	7.4	7.1	7.1	6.9c	
Kendall R.S. #2	10F15	7900	5/1	21	8.8	11.4	8.1		
Loomis Park #1	10F16	8500	4/30	36	14.6	18.5	16.6	14.0e	
Loomis Park #2	10F16	8500	4/30	40	16.0	19.8	18.1		
Mulligan Park	9G1	8900	4/27	39	10.8	9.7	11.0	8.0	
New Fork Lake	9F21	8325	5/1	30	10.5	12.7	10.4		
North Horse Creek	10G16	8200	4/30	47	20.8	19.3	N.R.		
Piney LaBarge #1	10G10	8820	4/28	54	19.1	20.0	20.8	15.2e	
Piney LaBarge #2	10G10	8820	4/28	64	24.7	23.6	23.0	17.7e	
Pocket Creek	9G11	9360	4/28	46	13.0	12.2	14.7		
Poison Meadows	10G6A	8500	4/28	91	31.0	30.7	37.1	30.8a	
Snyder Basin #2	10G13MP	8040	4/28	43	15.9	16.3	15.1	11.3e	
Soda Lake	10G14	8300	4/29	47	17.0	17.1	14.4	15.8e	
South Pass	8G3MP	9000	4/30	44	15.1	15.4	14.5	16.3	
Triple Peaks	10G15	8500	4/29	66	27.5	26.4	25.1	27.9e	

GREEN RIVER - BELOW GREEN RIVER

Big Park	10G11	8700	4/27	68	21.2	20.6	22.1	20.1	
Black's Fork Jct.	10J22	8925	4/24	40	10.1	8.3	5.8		
Buck Pasture	10J23A	9700	N.R.			15.3A	N.R.		
East Fork Black's Fk.	10J21	9300	4/24	44	12.8	8.7	9.5		
Elk River	6J4	8700	4/28	54	18.9	12.6	15.3	12.8	
Henry's Fork	10J24A	10200	N.R.			9.8A			
Hewinta R.S.	10J4	9500	4/24	45	13.1	10.8	6.8		
Hickerson Park	9J8	9100	4/24	33	8.8	3.0	3.9		
Kelly R.S.	10G12P	8200	4/27	61	19.4	16.3	19.2	16.0	
Lake Fork Basin	10J25	11100	N.R.			17.6A	20.5A		
Old Battle	6H10P	9800	5/1	87	32.4	32.6	29.4	34.1	
Spirit Lake	9J7	10300	4/24	58	17.9	9.8	16.2		

SNAKE RIVER - ABOVE JACKSON LAKE

Grassy Lake	10E15MP	7265	4/30	74	32.8	28.7	31.1	32.4	
Lewis Lake Divide	10E9	7900	4/30	80	37.2	35.4	44.3		

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1964

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					PAST RECORD		
			Date of Survey	Snow Depth (In.)	Water Content (In.)	1964		Water Content (In.)	1943-5	
						1963	1962			
<u>JACKSON LAKE TO PALISADES</u>										
Afton R.S.	10G4	6200	4/28	0	0.0	0.0	0.0	0.0	0.0	0.0
Bryan Flat	10F14	6250	4/28	15	4.7	0.0	2.3	2.2e		
Blind Bull Summit	10G2A	8750	N.R.			12.5A	N.R.	33.4e		
CCC Camp	10G7	7500	4/27	37	12.3	7.8	0.0	6.0e		
East Rim Divide	10F17MP	7950	4/28	30	7.9	9.1	11.6	10.5e		
Greys Boundary	10F18	5800	4/27	28	9.7	T	0.0	0.7		
Gros Ventre	10F19	8750	5/1	33	10.1	12.1	16.6	10.8e		
Grover Park Divide	10G3	7500	4/28	36	13.4	12.1	0.0	7.1e		
Loomis Park #1	10F16	8500	4/30	36	14.6	18.5	11.9	14.0e		
Loomis Park #2	10F16	8500	4/30	40	16.0	19.8	18.1			
Poison Meadows	10G6A	8500	4/28	91	31.0	30.7	37.1	30.8e		
Salt River Summit	10G8MP	7900	4/27	46	16.3	14.2	10.6	10.3e		
Snow King Mtn. #3	10F20M	7600	4/30	37	12.6	12.9	9.7			
Teton Pass #2	10F13	8500				29.8	34.0	39.2e		
Togwotee Pass	10F9MP	9600	4/30	81	33.4	31.7	33.0	29.5e		
Yellowjacket	10F10	7675		ABANDONED		0.0	0.0			
Cottonwood Lake	10G5A	7500		N.R.		12.5A	N.R.	16.9		
<u>BEAR RIVER</u>										
Big Park	10G11A	8700	4/27	68	21.2	20.6	22.1	20.1a		
CCC Camp	10G7	7500	4/27	37	12.3	7.8	0.0	6.0e		
Goodman Ranch	10J6	7900	5/1	7	2.8	0.0	0.0			
Hayden Fork	10J7	9300	5/1	50	18.0	17.6	16.3			
Kelly R.S.	10G12P	8200	4/27	61	19.4	16.3	19.2	15.3		
Monte Cristo	11H12	8960	4/28	73	27.1	27.3	24.2			
Poison Meadows	10G6	8500	4/28	91	31.0	30.7	37.1	30.8		
Salt River Summit	10G8MP	7900	4/27	46	16.3	14.2	10.6	10.8e		
Still Water Camp	10J17	8550	5/1	29	11.2	8.0	2.8			
Trial Lake	10J8	9800	4/29	75	24.9	28.2	32.4			
Steel Creek Park	10J20A	9900	4/22	62	17.6	13.0	13.3			

- a. Average of All Past Data.
- c. Colorado Snow Courses.
- e. 1943-57 Partially Estimated.
- m. Montana Snow Courses.
- u. Utah Snow Courses.
- ‡ Located Close to Divide.
- A. Aerial Stadia Marker, Water Content Estimated.
- M. Soil Moisture Stack.
- P. Pearson Storage Gage.

STATUS OF WYOMING RESERVOIR DATA

May 1, 1964

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000's AF	USABLE STORAGE - 1000's			ACRE FEE 1943-57 15-Yr.
			1964	1963	1962	
Snake River	Jackson	847.0	635.4	631	250.9	503.3
Snake River	Palisades	1,202.0	821.5	1191	985.2	738.6
Snake River	Grassy Lake	15.2	9.4		10.0	13.4
North Platte	Seminoe	981.8	119.6	372	291.5	428.4
North Platte	Pathfinder	1,011.0	226.2	452	327.2	631.4
North Platte	Alcova**	30.3	27.4	25.6	13.7	18.5
North Platte	Guernsey	39.8	35.2	30.0	20.9	28.5
North Platte	Glendo	786.3	434.2	423	421.0	382.9
Laramie River	Wheatland	95.0	N.R.	64	76.8	44.1
Belle Fourche	Keyhole	190.3	76.9	68	0.2	10.8
Shoshone River	Buffalo Bill***	380.3	97.9	134	164.5	230.3
Wind River	Boysen	560.0	238.7	331	134.5	183.0
Wind River	Pilot Butte	31.6	30.6	30.2	28.4	23.0
Wind River	Bull Lake	152.0	88.7	90.8	84.1	53.5
Green River	Big Sandy	38.3	14.8	12.1	13.2	13.1
Greybull River	Sunshine	53.0	N.R.	51.5	N.R.	

- * Average is for less than 15 years of record in the 1943-57 period.
- ** Alcova downstream from Seminoe and Pathfinder, includes 160,170 acre feet of storage that is unavailable to the Kendrick Project. In the future, storage in this reservoir will be held at usable capacity (190,500 acre feet.)
- *** Usable capacity is 439,800 acre feet, however, 59,500 acre feet are inactive except in emergency.
- e Estimated average.
- # All past data.



STATUS OF NEBRASKA AND SOUTH DAKOTA RESERVOIR DATA

May 1, 1964

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000's AF	USABLE STORAGE - 1000's ACRE FEET			1943-5: 15-Yr.
			1964	1963	1962	
<u>NEBRASKA</u>						
Kansas Basin	Bonny ^c	39.9	39.9	41.2	35.9	38.6*
Kansas Basin	Swanson Lake	116.1	115.9	116.0	116.5	92.8*
Kansas Basin	Enders	36.0	34.0	35.3	35.9	35.6*
Kansas Basin	Harry Strunk	33.9	33.4	34.3	33.7	32.8*
Kansas Basin	Harlan County	348.8	298.0	349.0	348.2	191.0*
Kansas Basin	Cedar Bluff ^k	176.8	169.3	172.0	173.8	148.1*
Kansas Basin	Lovewell ^l ^k	37.3	43.9	27.3	37.4	34.5*
Kansas Basin	Kirwink ^k	88.8	80.2	99.0	88.4	59.7*
Kansas Basin	Webster ^k	64.9	64.7	65.0	64.6	55.5*
Kansas Basin	Kanopolis	48.1	49.6	48.1	N.R.	
<u>SOUTH DAKOTA</u>						
Belle Fourche	Belle Fourche	185.2	155.8	182.0	73.0	132.9
Cheyenne River	Angostura	92.0	77.9	90.0	18.7	63.4*
Cheyenne River	Deerfield	15.1	15.0	9.0	4.7	9.1*
Grand River	Shadehill	84.0	28.2	59.0	35.8	72.6*
Rapid Creek	Pactola	55.0	54.6	33.0	4.3	

c. Located in Colorado.

k. Located in Kansas.

* Average of all past data.



Agencies Cooperating in Wyoming Snow Surveys

FEDERAL

U. S. Department of Agriculture
Forest Service
Soil Conservation Service

U. S. Department of Commerce
Weather Bureau

U. S. Department of the Interior
Bureau of Reclamation
Geological Survey
National Park Service
Indian Service

STATE

State Engineer of Wyoming

University of Wyoming
Natural Resources Research Institute
Department of Agricultural Engineering

PRIVATE

Wheatland Irrigation District
Greybull Valley Irrigation District
Clouds Peak Soil & Water Conservation District
Cody Soil & Water Conservation District
Dubois-Crowheart Soil & Water Conservation District
Greybull Valley Soil & Water Conservation District
Lake DeSmet Soil & Water Conservation District
Laramie Rivers Soil & Water Conservation District
Little Snake River Soil & Water Conservation District
Medicine Bow Soil & Water Conservation District
Pinedale Soil & Water Conservation District
S & E Soil & Water Conservation District
Shell Valley Soil & Water Conservation District
Shoshone Soil & Water Conservation District
Tongue River Soil & Water Conservation District
Washakie Soil & Water Conservation District
Wheatland Soil & Water Conservation District
Powder River Soil & Water Conservation District
Pavillion & Wind River Soil & Water Conservation District
Powell-Clarks Fork Soil & Water Conservation District
Bridger Valley Soil & Water Conservation District

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